

Before the paragraph beginning at page 1, line 5 please insert the following section heading:

BACKGROUND OF THE INVENTION

Before the paragraph beginning at page 1, line 10, please insert the following section heading:

SUMMARY OF THE INVENTION

Before the heading on page 5, line 1, please insert the following section headings and specification paragraph:

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a reaction diagram showing the production of compounds C and D from starting materials A or B;

Fig. 2 is a formula showing the dependence of the conformation of  $\alpha$ -alcohol 34 on solvent;

Fig. 3 is a reaction diagram showing an enantioselective synthesis of (D)-cyclohexene nucleoside 4 from R-(-)-carvone 1;

Fig. 4 is a reaction diagram of the production of compound 5 from compound 3;

Fig. 5 is a reaction diagram of the conversion of intermediate 2b to dibenzoate 10 and further reaction to form compound 6;

Fig. 6 is a reaction diagram showing the use of a Mitsunobu reaction for the introduction of a base moiety, and the production of compounds 7 and 8 from compound 6;

Fig. 7 is a reaction diagram showing the conversion of R-carvone to compounds 7a, 7b and 7c;

Fig. 8 is a reaction diagram showing the production of a mixture of cyclohexenes 11 and 13 from compound 7a;

Fig. 9 is a reaction diagram showing the production of compound 19 from compound 7b, and reaction strategies involving compound 19;

Fig. 10 is a reaction diagram showing the production of compound 34 from precursor 7c; and

Fig. 11 is a reaction diagram of the production of compounds D-2a and L-2a from intermediate 34.

### DESCRIPTION OF THE PREFERRED EMBODIMENT

#### IN THE CLAIMS:

Please delete claims 40 and 42.

Please amend claim 2 as follows:

2. (Amended) A six membered, at least partially unsaturated, carbocyclic nucleoside compound, according to claim 1, being a cyclhexenyl nucleoside compound having a general formula selected from the group consisting of II and III

